Brick by Brick: LEGO® Shipbuilding



LEVEL: EXPERT (USS MONITOR)

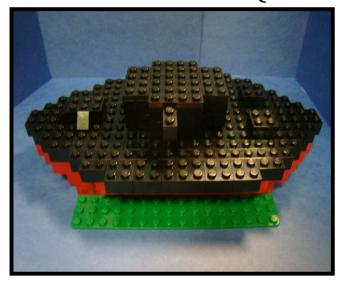
SIDE

BRICK SUPPLY LIST

BLACK

RED

BRICK DIM.



RED AND BLACK BRICKS ARE REQUIRED FOR THIS MODEL.

THIN	2X4 TALS :	0 64	6 86
SLANTED	2X2	0	1
SLANTED	1X2	0	2
C	2x8	2	0
	2X6	8	0
	2X4	8	5
	2X3	6	10
	2X2	4	18
		-	
	1X10	4	1
	1x8	6	6
	1x6	9	10
)R	1x4	5	8
RICKS	1x3	6	2
	1X2	6	17

TOTAL BRICKS:

A Note on Dimension:

The instructions included for this ship model represent a new educational initiative by the Hampton Roads Naval Museum in order to promote STEM principles under the lens of naval history. When properly assembled, each graph (or Step) represents a layer of bricks built to resemble a design of a specific ship used in American naval history. Colors represent each specific layer of the vessel, from the keel to the top masts. Please note that the sizes and shapes represented in these instructions are squared. However, they are not to scale with LEGO brick sizes. They merely show the graphical placement locations of brick layers. For more information or questions, please email Matthew Eng at matthew.t.eng@navv.mil.

Ship Models included in this program are built with LEGO® bricks. LEGO® is a trademark of the LEGO Group of companies which does not sponsor, authorize, or endorse this site.

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BLACK AND RED BRICKS ARE REQUIRED FOR THIS MODEL.



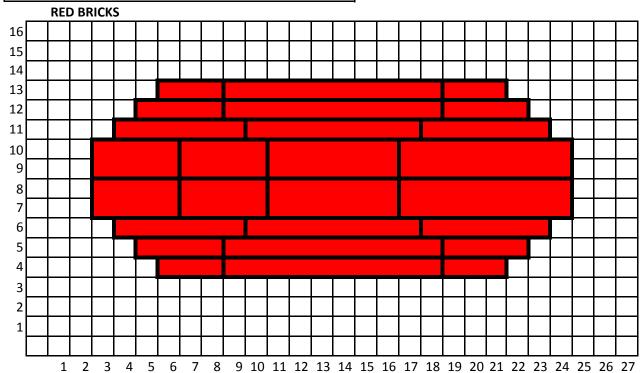
TOP





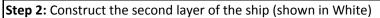
Instructions: Follow each step and layer the color-coded bricks on your building grid. Subsequent steps are layered on top of previous layers.

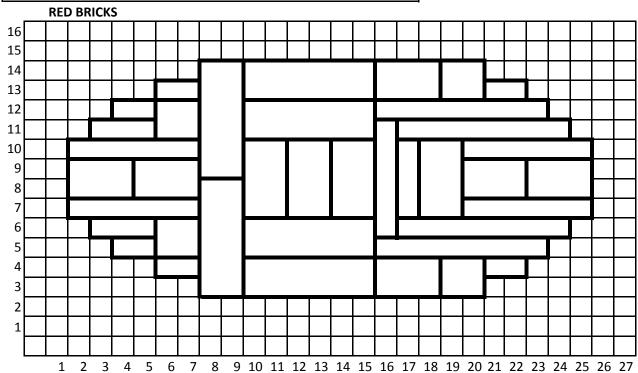
Step 1: Construct the base of the ship (shown in Red)





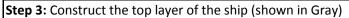
Step by Step Instructions

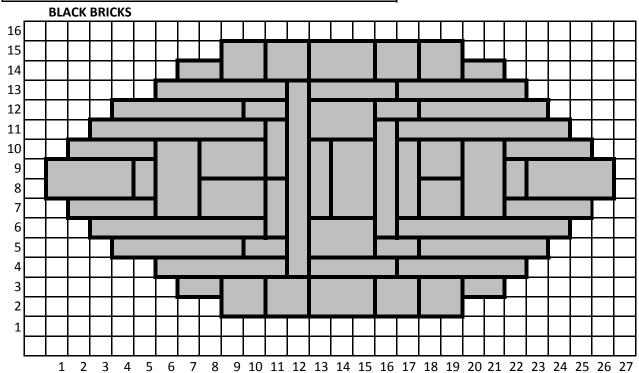






Step by Step Instructions

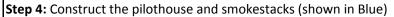


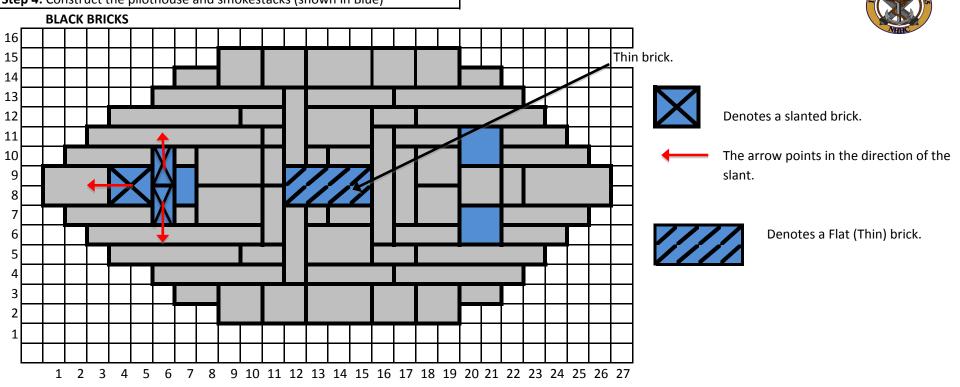




Step by Step Instructions



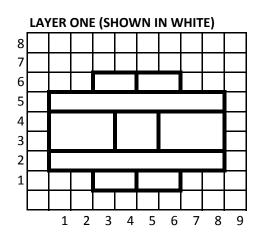


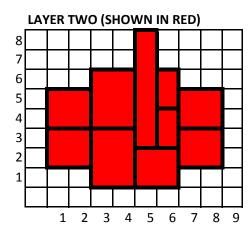


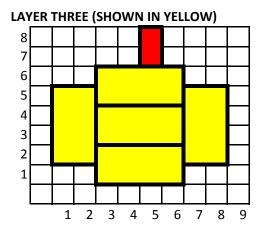
USS *Monitor* (Miniature) Step by Step Instructions

Step 5: Construct the turret

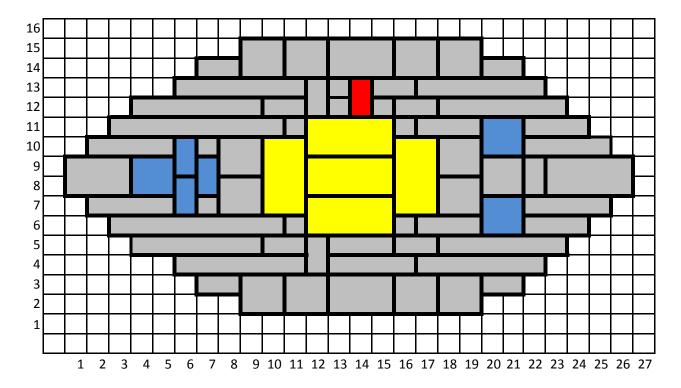
NOTE: BRICKS USED WILL BE BLACK; WHITE, RED, AND YELLOW BRICKS DISTINGUISH THE PROCEEDING LAYERS.







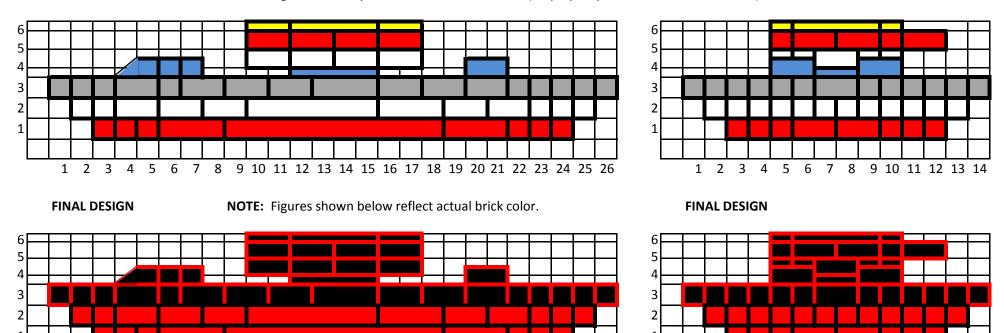
Step 6: Connect the turret with the *Monitor* body





USS *Monitor* (Miniature) Final Ship Dimensions

NOTE: Figure shown by level, not actual brick color (Step by Step instructions shown above)



7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26

1 2 3 4 5 6 7 8 9 10 11 12 13 14